## GENERAL NOTES

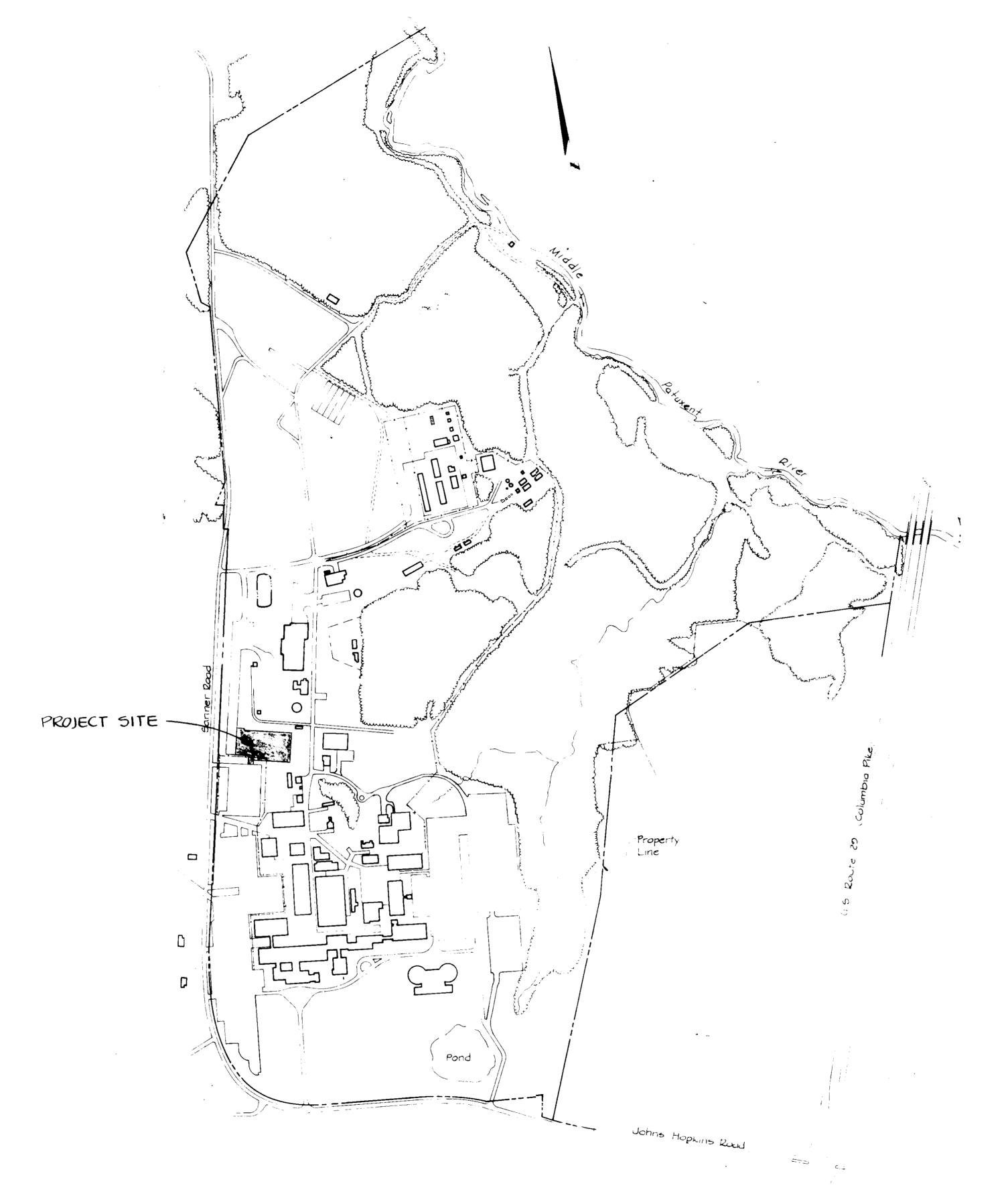
- I. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE HOWARD COUNTY SPECIFICATIONS
- AND DETAILS FOR CONSTRUCTION.
- 2. ELEVATIONS SHOWN ARE BASED ON THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY
- DATUM. JHU-APL-DATUM 0.94' = HOWARD COUNTY DATUM. 3. THE CONTRACTOR SHALL CALL MISS UTILITY (301) 559-0100, FIVE DAYS PRIOR TO THE START
- OF CONSTRUCTION.
- 4. POLY FILTER X FILTER CLOTH BLANKET OR EQUAL SHALL BE PLACED UNDER ALL STONE RIP RAP. 5. APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL
- NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND TO MAINTAIN AN UNINTERRUPTED SERVICE.
- ANY DAMAGE BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE
- 6. LANDSCAPING SHALL BE BY JHU-APL.
- 7. THE CONTRACTOR SHALL CONTACT MR. ARTHUR STUCKI, PLANT ENGINEER, (301) 953-7100 AT
- LEAST 5 WORKING DAYS PRIOR TO COMMENCING ANY WORK.
- 8. THE CONTRACTOR OR DEVELOPER SHALL CONTACT THE CONSTRUCTION INSPECTION/SURVEY DIVISION.
- 24 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, AT 992-2417 OR 2418.
- 9. ALL DISTURBED SLOPE AREAS TO BE STABILIZED AS SOON AS GRADING IS COMPLETED.
- 10. STORMWATER MANAGEMENT FOR THIS PROJECT HAS BEEN APPROVED UNDER SDP-83-21.

#### SITE DATA \_\_\_\_\_

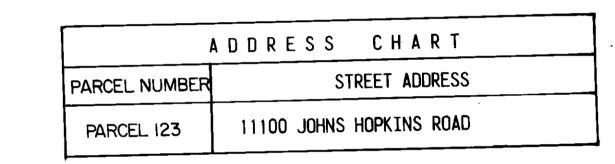
١.	ZONING	RURAL, R.
2.	SITE AREA	1.9 AC. ±
3.	ACREAGE OF ENTIRE PROPERTY	366 AC.
4.	EXISTING BUILDING COVERAGE	14.0 AC.= 3.82%
5.	TOTAL NUMBER OF EXISTING EMPLOYEES/	
	PERSONNEL ON THE ENTIRE SITE	3,100
6.	TOTAL NUMBER OF PARKING SPACES REQUIRED	2,258
7.	TOTAL NUMBER OF PARKING SPACES PROVIDED	
	EXISTING SPACES	2,627
	PROPOSED SPACES	182
	TOTAL EXISTING AND PROPOSED	

## SHEET INDEX

- COVER SHEET
- GRADING PLAN
- ROAD AND UTILITY PLAN
- PROFILES, DRAINAGE AREA MAP
- SEDIMENT CONTROL PLAN
- SEDIMENT CONTROL NOTES, DETAILS



LOCATION PLAN Scale |"= 400



VICINITY MAP

Scale 1"= 2000

	IVISION NAME U. APPLIED PHYSICS LAB			N/A		LOT/PARCEL 123		
PLAT# OR L/F 234/304		ZONE R	TAX/ZO	NE MAP	ELEC . D 5Th		CENSUS TR 6051	
WATER CODE E - 21			SEW	SEWER CODE 6480000				

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT APPROVED: STORM DRAINAGE SYSTEMS, ROADS AND PUBLIC WATER AND SEWERAGE SYSTEMS - HOWARD COUNTY DEPARITMENT OF PUBLIC WORKS. DATE: 10-1-15 DATE: Valida APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND

VOR STOR

9-17-86

DATE: 10-16-86 CHIEF, DIVISION OF LAND DEVELOPMENT AND ZONING ADMINISTRATION

WHITMAN, REQUARDT AND ASSOCIATES Termethan Molor

2315 SAINT PAUL STREET

BALTIMORE, MARYLAND

21218

APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY

Johns Hopkins Road Howard County, Maryland

Date 9 July 1986 Title Asst Dinector

# SPACE INTEGRATION BUILDING PARKING LOT EXTENSION

PARKING LOT ADDITION TO SDP-83-215 AND SDP-86-262 THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

11100 Johns Hopkins Road

Laurel, Maryland 20707

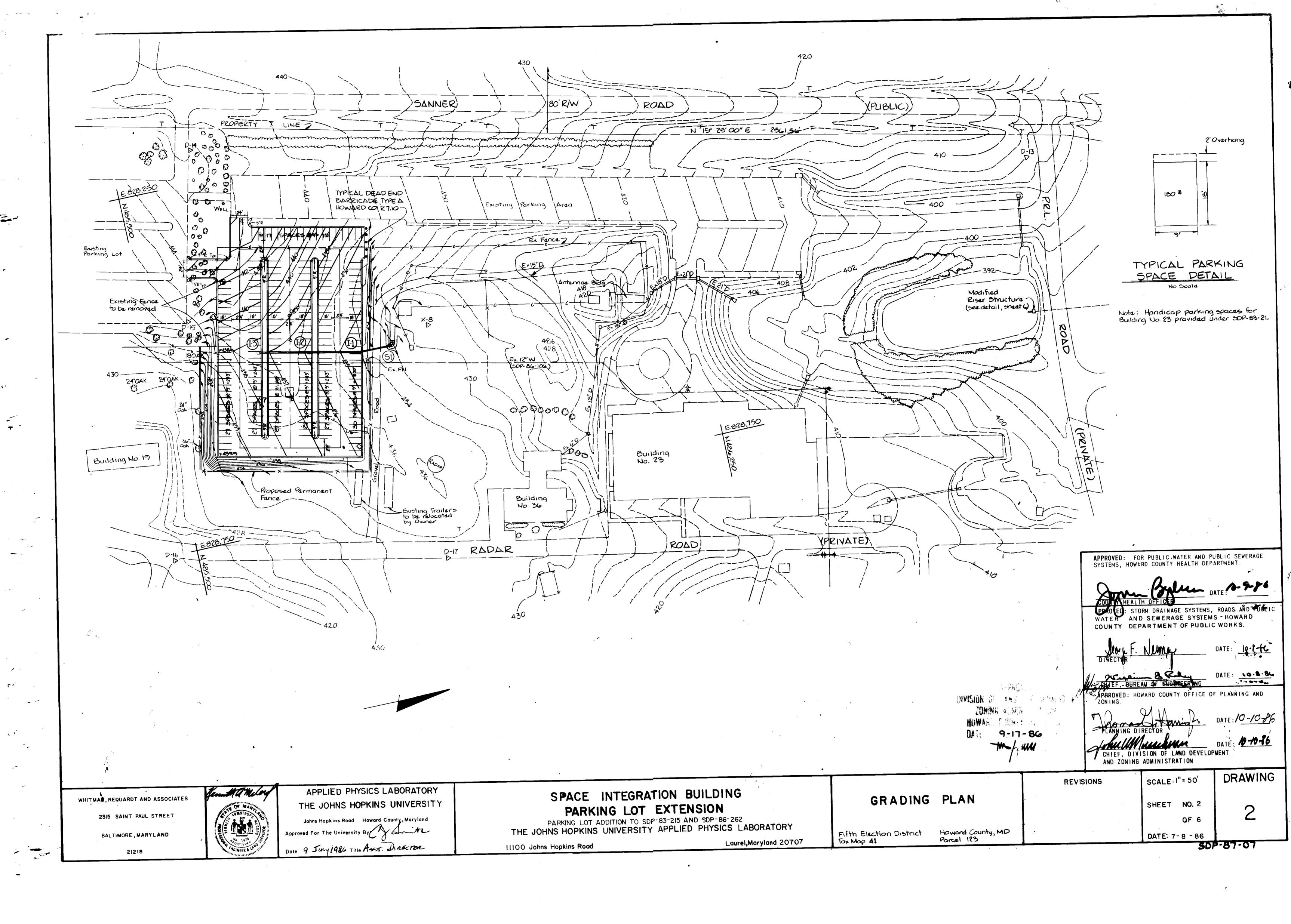
COVER SHEET

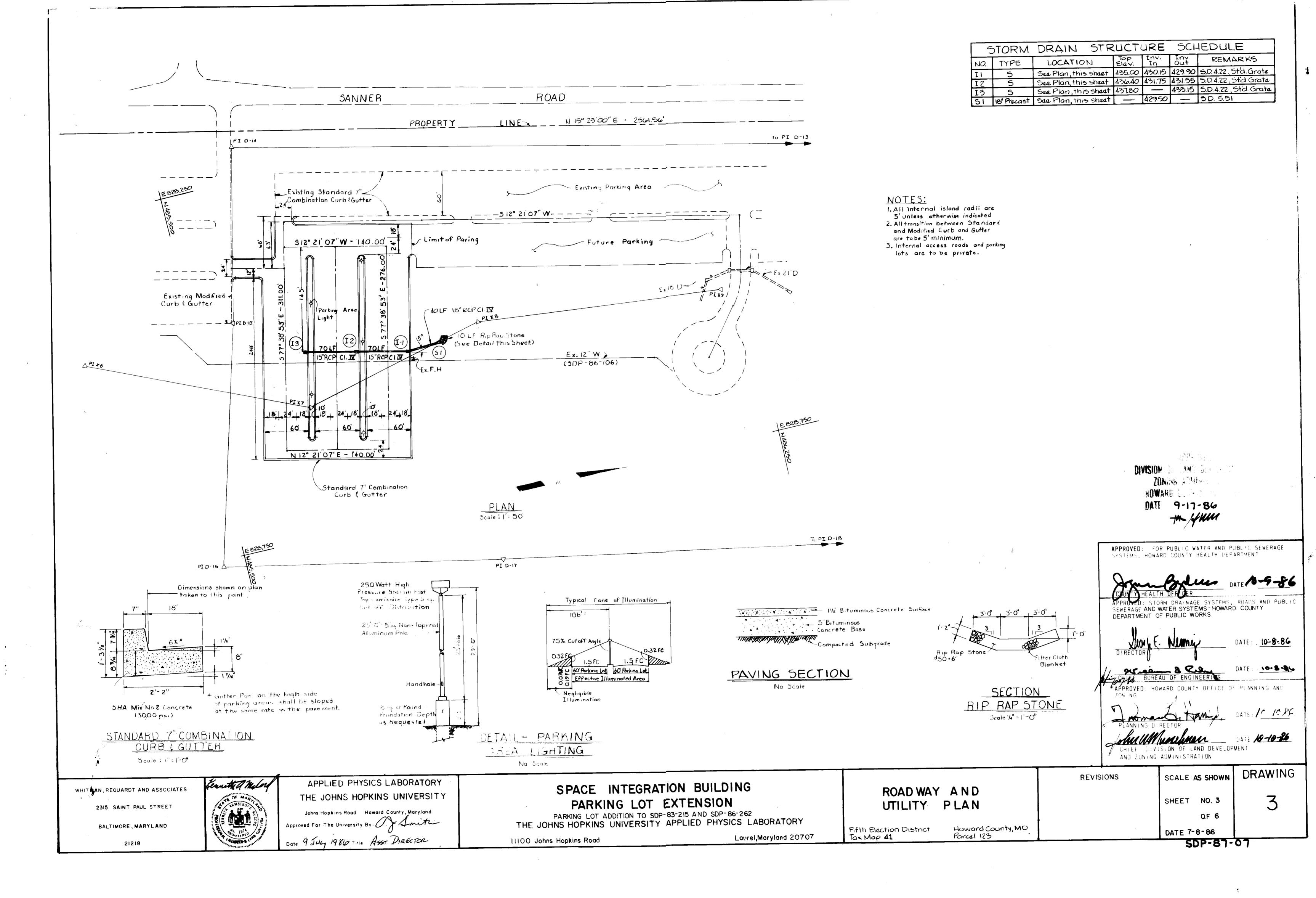
Howard County, MD Parcal 123 Fifth Election District Tax Map 41

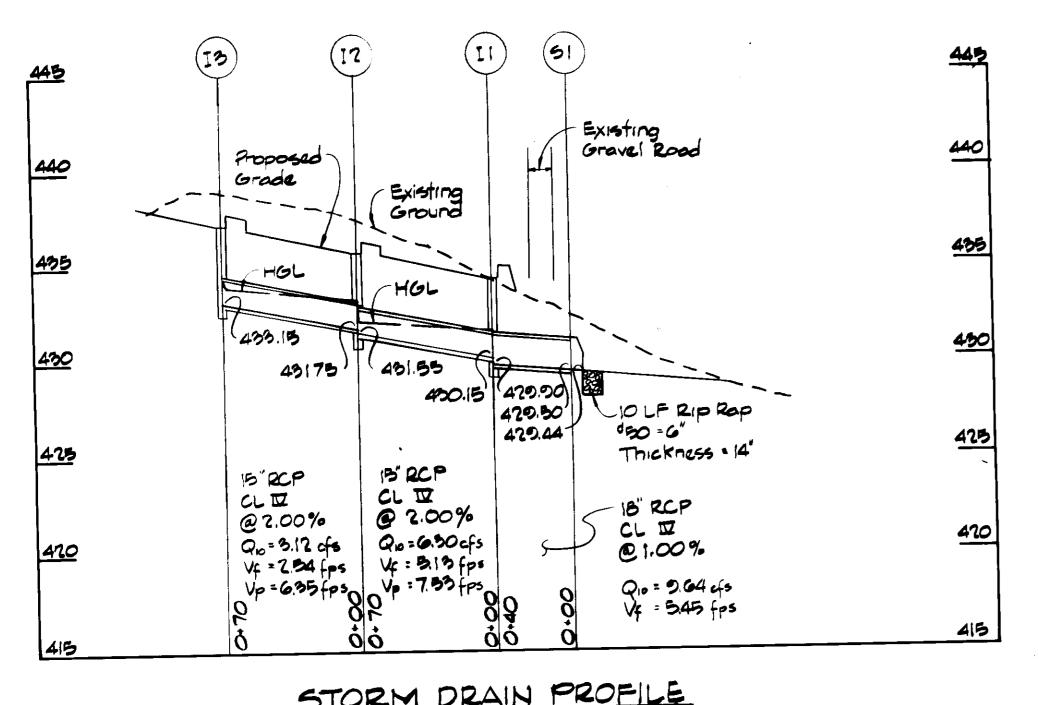
REVISIONS

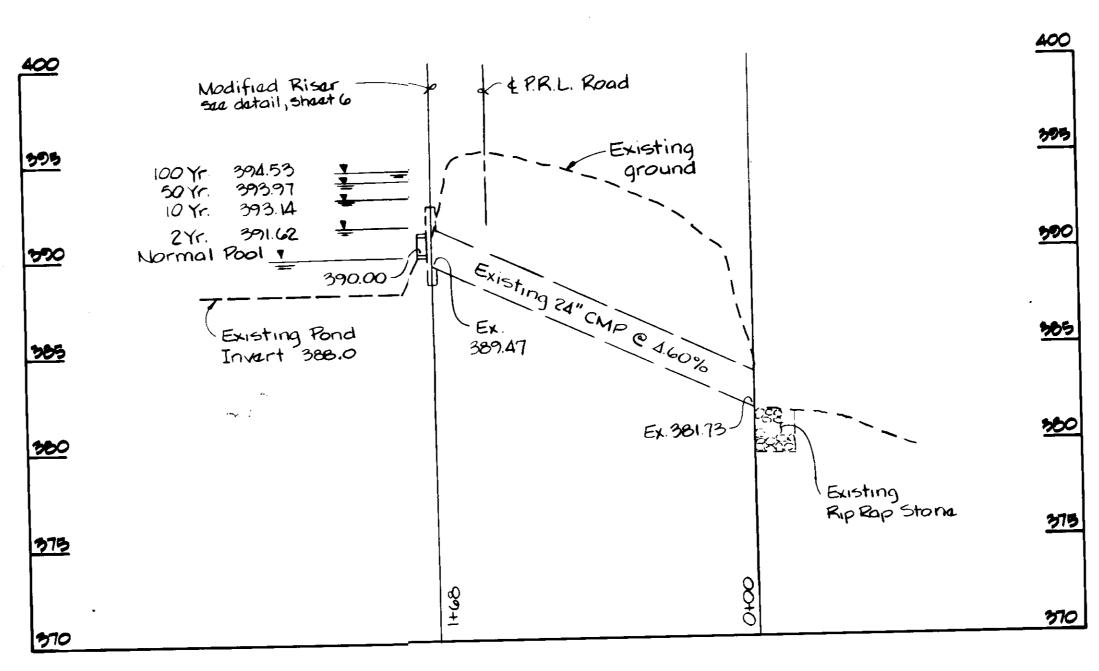
DRAWING SCALE: AS SHOWN SHEET NO. I OF 6 DATE: 7-8-86

5DP-87-07









& Existing P.R.L. Road 396.1 2+70 100 Yr. 394,53 396,5 50 Yr. 393.97 10 Yr. 393,14 2 Yr. 391.62-Ex. 24"CMP 388.11 Limit of Existing SWM Pond 2001

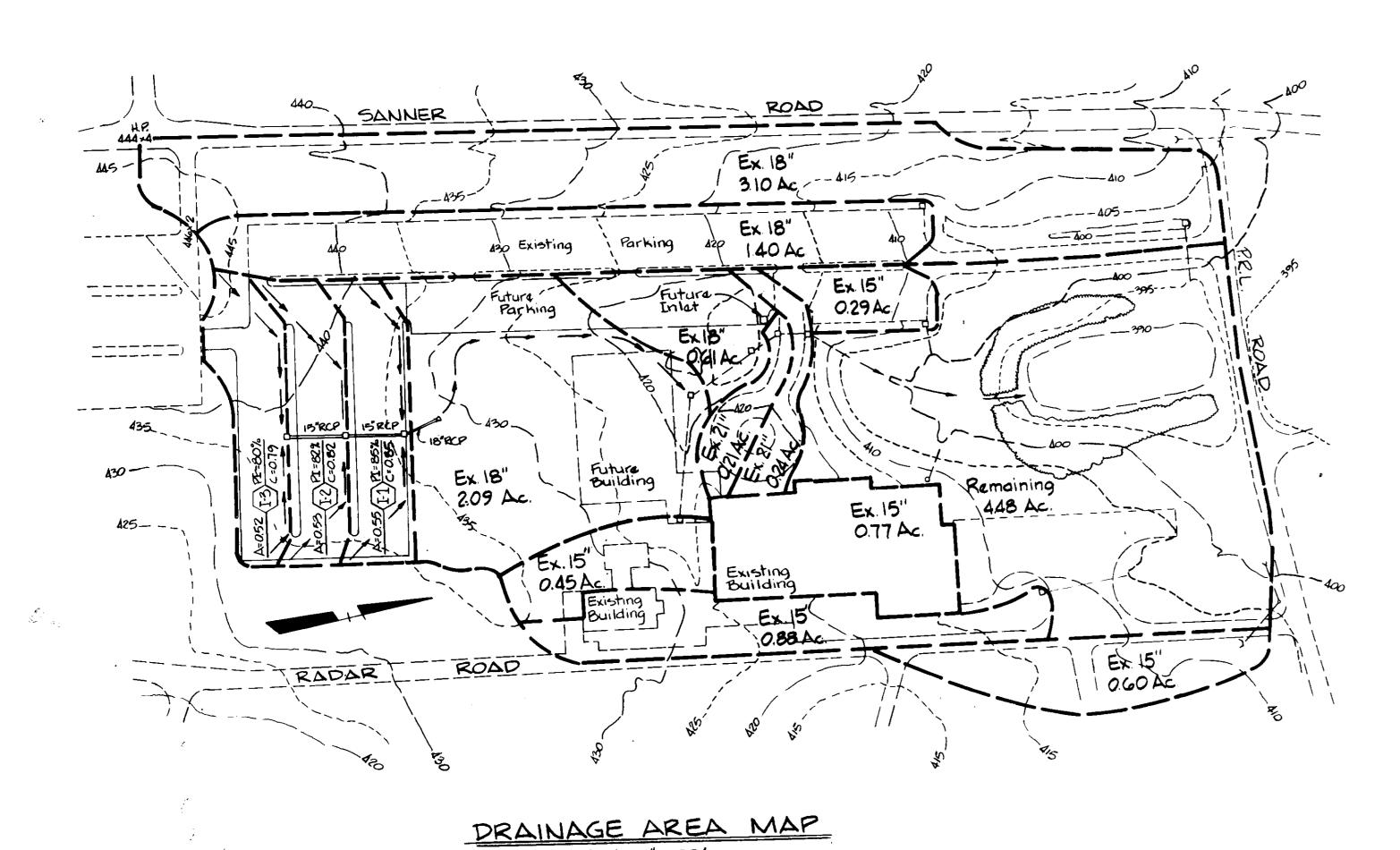
STORM DRAIN PROFILE

Scale: 1=50 Hor.

1": 5' Vert.

PRINCIPLE SPILLWAY PROFILE Scale: 1"=50' Hor. 1"=5' Vert.

PROFILE ALONG & P.R.L. ROAD Scale: 1": 50' H



Description	Araa (Ac)	% Imp.	С	Tc (Min.)
Inlat 1	0.55	85	0.85	6.9
Inlat 2	0.53	82	0.82	7.3
Inlat 3	0.52	80	0.79	7.5
Ex. 15" D	0.60	33	0.45	13.4
Ex. 15" D	0.88	37	0.50	12.9
Ex. 15" D	0.77	95	0.95	5.6
Ex. 15" D	0.45	20	0.28	15.0
Ex. 15" D	0.29	85	0.85	6.9
Ex. 18"D	2.09	రి	0.19	16.5
Ex. 18" D	0.61	17	0.26	15.4
Ex. 18" D	1.40	80	0.80	7.5
Ex 18"D	3.10	16	0.26	15.5
Ex. 21"D	0.21	80	0.80	7.5
Ex. 21"D	0.24	75	0.75	8.1
Pond	4.48	45	0.55	11.9

APPRIX CIVISION OF LIVE OF APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT WATER AND SEWERAGE SYSTEMS - HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS. DATE: 10-1-16 APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND

CHIEF. DIVISION OF LAND DEVELOPMENT

AND ZONING ADMINISTRATION

WHITMAN REQUARDT AND ASSOCIATES 2315 SAINT PAUL STREET BALTIMORE, MARYLAND

21218

2 1910

APPLIED PHYSICS LABORATORY THE JOHNS HOPKINS UNIVERSITY Johns Hopkins Road Howard County, Maryland Approved For The University By: Amity Date 9 July 1986 Title ASST DIRECTOR

Scala: 1"=100'

SPACE INTEGRATION BUILDING PARKING LOT EXTENSION

PARKING LOT ADDITION TO SDP-83-215 AND SDP-86-262
THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

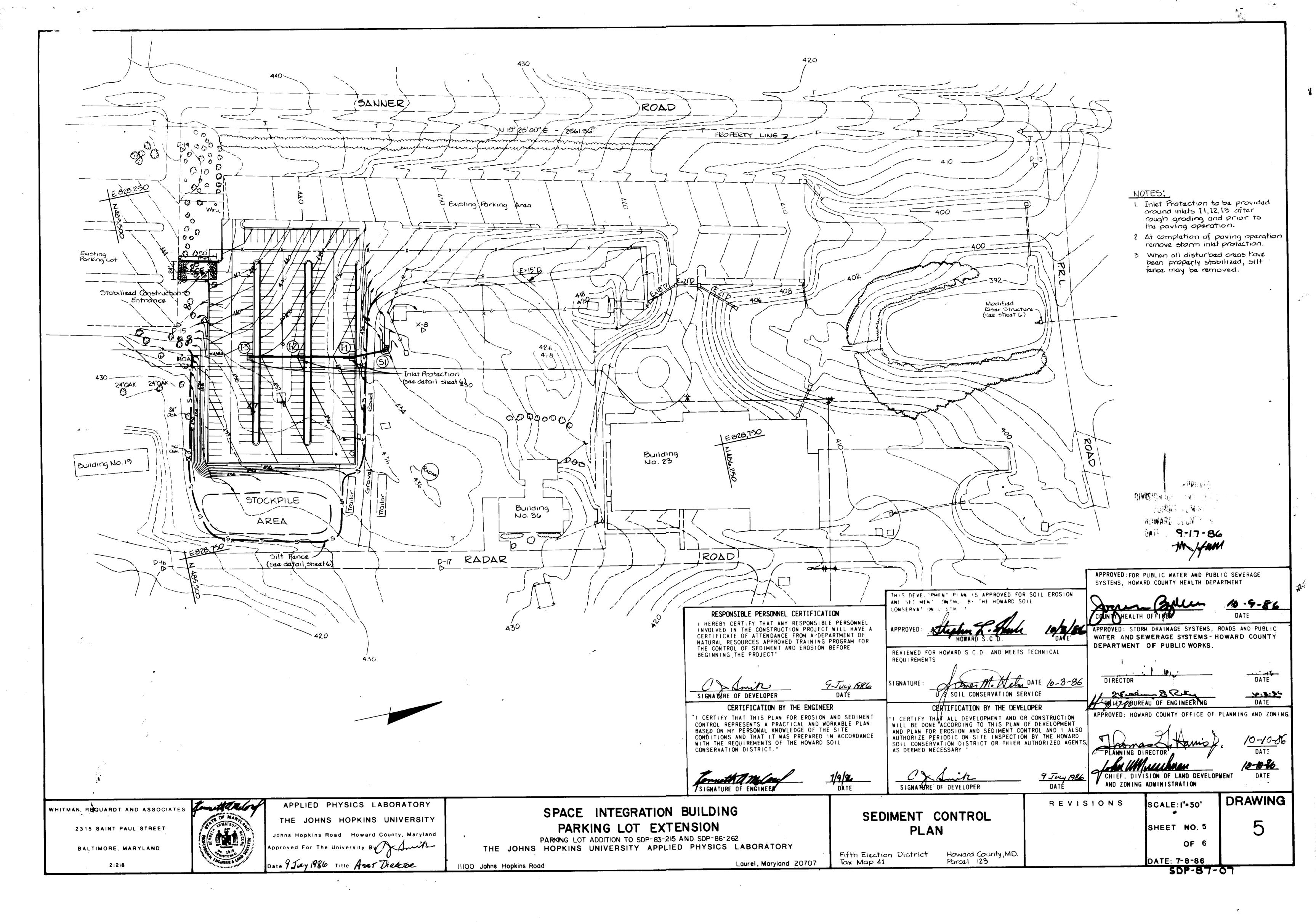
11100 Johns Hopkins Road

Laurel, Maryland 20707

PROFILES, DRAINAGE AREA MAP

Howard County, MD. Parcal 123 Fifth Election District Tax Map 41

DRAWING REVISIONS SCALE: AS SHOWN SHEET NO. 4 QF 6 DATE 7-8-86 5DP-87-07



## SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTION AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION. (992-2437)
- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE. PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES DIKES, PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1 b) 14 DAYS AS TO ALL OTHER DISTURBED
- 4. ALL SEDIMENT TRAPS BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOLUME 1. CHAPTER 12. OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE. 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC.51) SOD (SEC.54). TEMPORARY SEEDING (SEC.50) AND MULCHING (SEC.52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES CAN NOT ALL FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE -CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR
- 7. SITE ANALYSIS: TOTAL AREA OF SITE ----- 366± ACRES AREA DISTURBED ----- 1.9± ACRES AREA TO BE VEGETATIVELY STABILIZED ------- 0.5± ACRES
  - TOTAL FILL - - - 3270 CU.YDS.

TOTAL CUT - - - - - - 2570 .CU.YDS.

- 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED. IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.
- TO. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUIRED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.

## TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

SOIL AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS 1000 SQ.FT. SEEDING: FOR PERIOD MARCH I THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15. SEED WITH  $2\frac{1}{2}$  BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS 1000 SQ.FT.). FOR PERIOD FROM MAY 1 THRU AUGUST 14. SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.07 LBS 1000 SQ.FT.) FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28. PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOD.

MULCHING: APPLY 1 TO 2 TONS PER ACRE (70 TO 90 LBS 1000 SQ.FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL 1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FT. OR HIGHER, USE 3+8 GAL. PER ACRE (8 GAL. 1000 SQ.FT.) FOR ANCHORING.

## PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG LIVED VEGETATIVE COVER IS NEEDED.

SEEDED PREPARATION: LOOSEN UPPER THREE INCHES BY RAKING DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

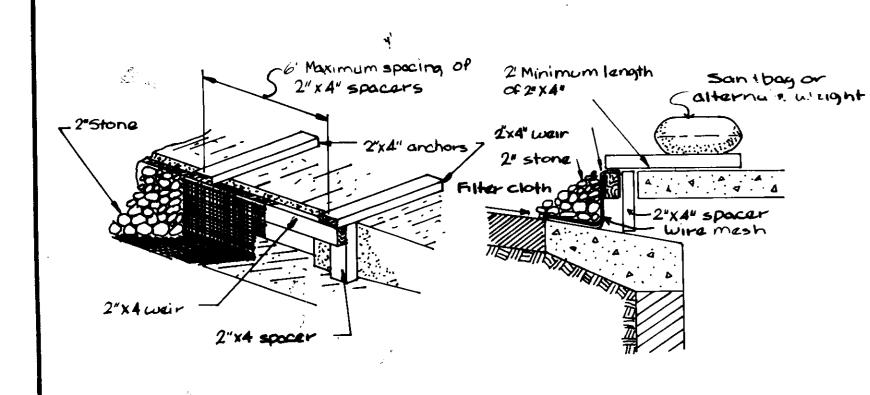
SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS. USE ONE OF THE FOLLOWING

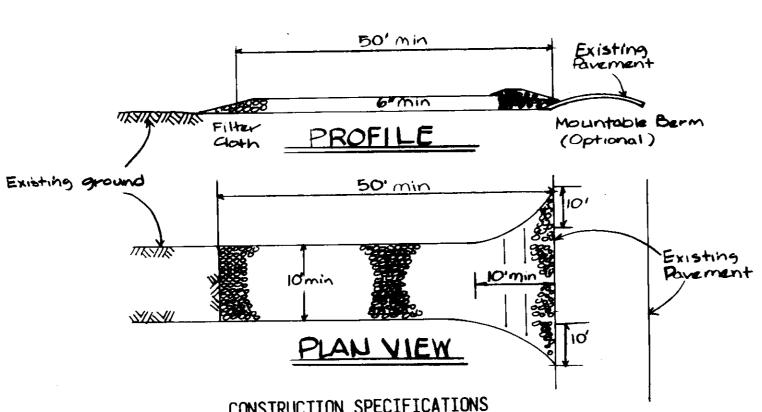
1. PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS 1000 SQ.FT.) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS 1000 SQ.FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE INCHES OF SOIL.

SEEDING: FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15. SEED WITH 60 LBS. PER ACRE (1.4 LBS 1000 SQ.FT.) OF KENTUCKY 31 TALL FESCUE, FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.05 LBS 1000 SQ.FT.) OF WEEPING LOVEGRASS, DURING THE PERIOD OF OCTOBER 15 THRU FEBRUARY 28, PROJECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS.PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW. MULCHING: APPLY 1 TO 2 TONS PER ACRE (70 TO 90 LBS. 100B SQ.FT.) OF UNROTTED SMALL

GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL. 1000 SQ.FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS, ON SLOPES 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL. 1000 SQ.FT.) FOR ANCHORING.

## CURB INLET PROTECTION DETAIL





## CONSTRUCTION SPECIFICATIONS

- 1. STONE SIZE USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT. 2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.

(10'Max.C. TOC.

PERSPECTIVE VIEW

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY

2. FILTER CLOTH TO BE FASTENED SECURELY TO

3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN

AT TOP AND MID SECTION.

INCHES AND FOLDED.

SILT FENCE.

TO FENCE POSTS WITH WIRE TIES OR STAPLES.

WOVEN WIRE FENCE WITH TIES SPACED EVERY 24"

EACH OTHER THEY SHALL BE OVERLAPPED BY SIX

4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND

MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE

SILT FENCE

NO SCALE

Woven wire fence (14 1/2 GAMin. Max.

Embedfilter cloth Min.

8" into ground

6" Mesh spacing) with filtercloth

- 4. WIDTH TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- 6. SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED. . MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS
- MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. 8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON
- AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT

9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN. STABILIZED CONSTRUCTION ENTRANCE

Woven wirefence CMin. 14% gauge, Max

- 36"Min. Fence posts, driven

Undisturbed ground

PREFABRICATED

POSTS: - STEEL EITHER T OR U

TYPE OR 2" HARDWOOD.

6" MAX, MESH OPENING.

FILTER X. MIRAFI 100X.

STABILINKA TI40N OR

GEOFAB. ENVIROFENCE

OR APPROVED EQUAL.

- WOVEN WIRE, 14 GA.

APPROVED EQUAL.

Min 16" into ground.

6" Mesh spacing.

36'Min.fenca post

~20"Min.

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

NO SCALE

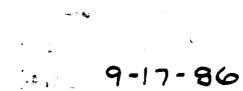
## STORM WATER MANAGEMENT SPECIFICATIONS

#### CONCRETE

- 1. MATERIALS a. CEMENT - NORMAL PORTLAND CEMENT SHALL CONFORM TO THE LATEST
- ASTM SPECIFICATIONS C-150. b. WATER - THE WATER USED IN CONCRETE SHALL BE CLEAN, FREE FROM OIL,
- ACID, ALKALI, SCALES, ORGANIC MATTER OR OTHER OBJECTIONABLE SUBSTANCES. c. SAND - THE SAND USED IN CONCRETE SHALL BE CLEAN, HARD, STRONG AND DURABLE, AND SHALL BE WELL GRADED WITH 100 PERCENT PASSING A ONE-QUARTER INCH SLEVE. LIMESTONE SAND SHALL NOT BE USED.
- d. COARSE AGGREGATE THE COARSE AGGREGATE SHALL BE CLEAN, HARD, STRONG AND FREE FROM CLAY OR DIRT. IT SHALL BE WELL GRADED WITH A MAXIMUM SIZE OF ONE AND ONE-HALF (1-1/2) INCHES.
- e. REINFORCING STEEL THE REINFORCING STEEL SHALL BE DEFORMED BARS OF INTERMEDIATE GRADE BILLET STEEL OR RAIL STEEL CONFORMING TO ASTM SPECIFICATION A-615.
- 2. DESIGN MIX THE CONCRETE SHALL BE MIXED IN THE FOLLOWING PROPORTIONS, MEASURED BY WEIGHT. THE WATER-CEMENT RATIO SHALL BE 5-1/2 TO 6 U.S. GALLONS OF WATER PER 94 POUND BAG OF CEMENT. THE PROPORTION OF MATERIALS FOR THE TRIAL MIX SHALL BE 1:2:3-1/2. THE COMBINATION OF AGGREGATES MAY BE ADJUSTED TO PRODUCE A PLASTIC AND WORKABLE MIX THAT WILL NOT PRODUCE HARSHNESS IN PLACING OR HONEYCOMBING IN THE
- 3. MIXING THE CONCRETE INGREDIENTS SHALL BE MIXED IN BATCH MIXERS UNTIL THE MIXTURE IS HOMOGENEOUS AND OF UNIFORM CONSISTENCY. THE MIXING OF EACH BATCH SHALL CONTINUE FOR NOT LESS THAN ONE AND ONE-HALF MINUTES AFTER ALL THE INGREDIENTS. EXCEPT THE FULL AMOUNT OF WATER, ARE IN THE MIXER. THE MINIMUM MIXING TIME IS PREDICTED ON PROPER CONTROL OF THE SPEED OF ROTATION OF THE MIXER AND OF THE INTRODUCTION OF THE MATERIALS, INCLUDING WATER, INTO THE MIXER. WATER SHALL BE ADDED PRIOR TO, DURING, AND FOLLOWING THE MIXER-CHARGING OPERATIONS. EXCESSIVE OVERMIXING REQUIRING THE ADDITION OF WATER TO PRESERVE THE REQUIRED CONCRETE CONSISTENCY SHALL NOT BE PERMITTED. TRUCK MIXING WILL BE ALLOWED PROVIDED THAT THE USE OF THIS METHOD SHALL CAUSE NO VIOLATION OF ANY APPLICABLE PROVISIONS OF THE SPECIFICATIONS GIVEN HERE.
- 4. FORMS-THE FORMS SHALL HAVE SUFFICIENT STRENGTH AND RIGIDITY TO HOLD THE CONCRETE AND TO WITHSTAND THE NECESSARY PRESSURE. TAMPING, AND VIBRATION WITHOUT DEFLECTION FROM THE PRESCRIBED LINES. THEY SHALL BE MORTAR-TIGHT AND CONSTRUCTED SO THAT THEY CAN BE REMOVED WITHOUT HAMMERING OR PRYING AGAINST THE CONCRETE. THE INSIDE OF FORMS SHALL BE OILED WITH A NON-STAINING MINERAL OIL OR THOROUGHLY WETTED BEFORE CONCRETE IS PLACED.
- 5. REINFORCING STEEL-ALL REINFORCING MATERIAL SHALL BE FREE OF DIRT, RUST, SCALE, OIL, PAINT OR ANY OTHER COATINGS. THE STEEL SHALL BE ACCURATELY PLACED AND SECURELY TIED AND BLOCKED INTO POSITION SO THAT NO MOVEMENT OF THE STEEL WILL OCCUR DURING PLACEMENT OF CONCRETE. 6. CONSOLIDATING-CONCRETE SHALL BE CONSOLIDATED WITH INTERNAL TYPE MECHANICAL VIBRATORS. VIBRATION SHALL BE SUPLEMENTED BY SPADING AND HAND TAMPING AS NECESSARY TO INSURE SMOOTH AND DENSE CONCRETE ALONG FORM SURFACES, IN CORNERS, AND AROUND EMBEDDED ITEMS.
- 7. FINISHING-DEFECTIVE CONCRETE, HONEYCOMBED AREAS. VOIDS LEFT BY THE REMOVAL OF TIE RODS. RIDGES ON ALL CONCRETE SURFACES PERMANENTLY EXPOSED TO VIEW OR EXPOSED TO WATER ON THE FINISHED STRUCTURE, SHALL BE REPAIRED IMMEDIATELY AFTER THE REMOVAL OF FORMS. ALL VOIDS SHALL BE REAMED AND COMPLETELY FILLED WITH DRY-PATCHING MORTAR.
- 8. PROTECTION AND CURING-EXPOSED SURFACES OF CONCRETE SHALL BE PROTECTED FROM THE DIRECT RAYS OF THE SUN FOR AT LEAST THE FIRST THREE (3) DAYS. ALL CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST FOR AT LEAST TEN (10) DAYS AFTER BEING PLACED. MOISTURE MAY BE APPLIED BY SPRAYING OR SPRINKLING AS NECESSARY TO PREVENT THE CONCRETE FROM DRYING.
- 9. PLACING TEMPERATURE-CONCRETE MAY NOT BE PLACED AT TEMPERATURE BELOW 37°F WITH THE TEMPERATURE FALLING, OR 34° WITH THE TEMPERATURE RISING.

## SEQUENCE OF CONSTRUCTION

- 1. NOTIFY THE HOWARD SOIL CONSERVATION DISTRICT AND THE HOWARD COUNTY BUREAU OF LICENSES, INSPECTION AND PERMITS AT LEAST 48 HOURS BEFORE ANY WORK BEGINS.
- 2. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AND INSTALL SILT FENCE.
- 3. STRIP TOPSOIL.
- 4. ROUGH GRADE THE SITE.
- 5. INSTALL SITE UTILITIES AND STORM DRAINS AND INSTALL CURB INLET PROTECTION.
- THEIGHT OF FILTER 16 Min. 6. CONSTRUCT CURB AND GUTTER AND PAVING.
  - 7. CONSTRUCT MODIFIED RISER.
  - 8. PERMANENTLY SEED AND STABILIZED PROPOSE GRASSED AREAS. 9. REMOVE SEDIMENT CONTROL FEATURES ONLY AFTER ALL CONTRIBUTING DRAINAGE
  - AREAS HAVE BEEN STABILIZED.



HANN

"I HEREBY CERTIFY THAT ANY RESPONSIBLE PERSONNEL

CERTIFICATE OF ATTENDANCE FROM A DEPARTMENT OF

CERTIFICATION BY THE ENGINEER

I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT

CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE

CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN

BASED ON MY PERSONAL KNOWLEDGE OF THE SITE

WITH THE REQUIREMENTS OF THE HOWARD SOIL

NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR

INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A

RESPONSIBLÉ PERSONNEL CERTIFICATION

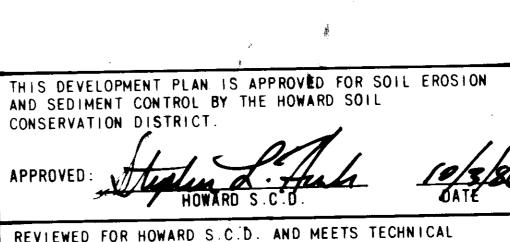
THE CONTROL OF SEDIMENT AND EROSION BEFORE

BEGINNING THE PROJECT"

SIGNATURE OF DEVELOPER

CONSERVATION DISTRICT. "

SIGNATURE OF ENGINEE



EX.15" RCP

to be removed

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.

IGNATURE U.S.SOIL CONSERVATION SERVICE / CERTIFICATION BY THE DEVELOPER

I CERTIFY/THAT ALL DEVELOPMENT AND OR CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THIER AUTHORIZED AGENTS AS DEEMED NECESSARY."

9 JULY 1986 SIGNATURE OF DEVELOPER

REVISIONS

3'-10"

2-6"

TOP VIEW

! \_\_\_\_\_\_

FRONT VIEW

Existing

Riser Crest 392.50 -

Existing Riser Structure

SECTION AA

MODIFIED RISER STRUCTURE

DI-RECTOR(

4 LF 12" RCP

Scale: 1/2"= 1'-0"

@ 1.00%

*39*0,*0*0

\_\_ <del>\_\_\_ -\_\_ -</del>

Existing Riser Structure

Existing Sidewalk Frame

Ex. 24"CMP

389.47

and Cover

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE

APPROVED: STORM DRAINAGE SYSTEMS, ROADS AND PUBLIC

WATER AND SEWERAGE SYSTEMS - HOWARD COUNTY

APPROVED: HOWARD COUNTY OFFICE OF PLANNING AND ZONING

10-1-16

DATE

10.8.80

DATE

10-10-86

DATE

DATE

10-10-16

SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.

DEPARTMENT OF PUBLIC WORKS.

Wieling & Ry

CHIEF, PUREAU OF ENGINEENING

AND ZONING ADMINISTRATION

Existing

Riser Crest

392.50

12 RCP

Existing 15" RCP

1. Remove existing 15" RCP low

2. Fill Joint with stiff mortar to

form watertight connection.

Existina

15"RCP to be

removed.

and replace with 12" RCP.

flow ovifice of Riser Structure

to be removed

Notes:

Normal Pool -

Existing Pond

Bottom 388.00

ろ**90.0** 

DRAWING SCALE: AS SHOWN

CHIEF, DIVISION OF LAND DEVELOPMENT

DATE: 7-8-86

SPACE INTEGRATION BUILDING PARKING LOT EXTENSION

PARKING LOT ADDITION TO SDP-83-215 AND SDP-86-262 THE JOHNS HOPKINS UNIVERSITY APPLIED PHYSICS LABORATORY

9 July 1986

Fifth Election District Parcal 123 Tax Map 41

TA METRON 2315 SAINT PAUL STREET

THE JOHNS HOPKINS UNIVERSITY Johns Hopkins Road Howard County, Maryland

Approved For The University By Date 9 July 1986 Title ASST DIRECTOR

APPLIED PHYSICS LABORATORY

Flow

11100 Johns Hopkins Road

Laurel, Maryland 20707

NOTES, DETAILS Howard County, MD

0 OF 6

SEDIMENT CONTROL

SHEET NO.6

SDP-87-07

21218

WHITMAN, REQUARDT AND ASSOCIATES

BALTIMORE, MARYLAND